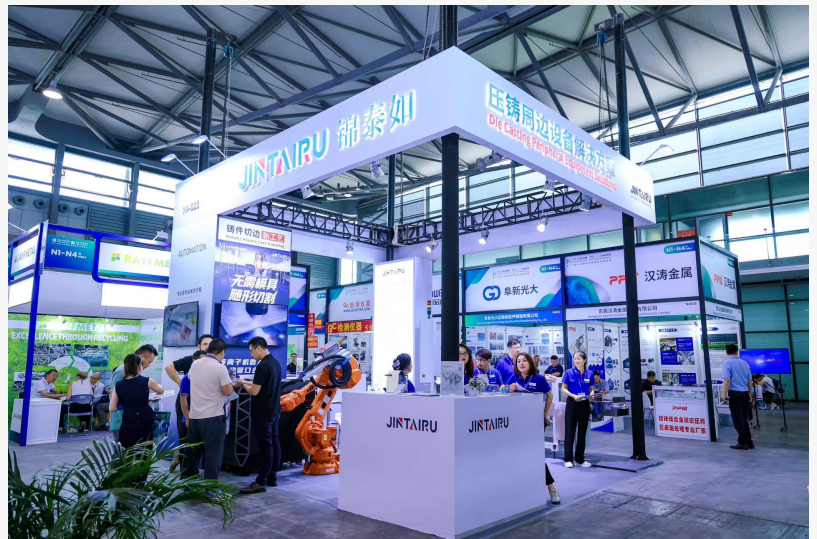


# Jintairu Automation and Hypertherm Unveil Breakthrough Plasma Robotic Workstation at Shanghai Die-Casting Expo

SHANGHAI, SHANGHAI, CHINA, July 24, 2025 /EINPresswire.com/ -- At the 2025 China International Die-casting Exhibition (CHINA DIECASTING), Suzhou JINTAIRU Automation Equipment Co., Ltd. unveiled its next-generation [plasma robotic](#) workstation, spotlighting a groundbreaking gate and riser cutting solution for aluminum castings. Developed in collaboration with Hypertherm, a global leader in plasma technology, this innovation emerged as the exhibition's premier "efficiency game-changer." The solution targets a critical challenge in mass production of [High-Pressure Die Casting](#) (HPDC) integrated parts: high-precision, efficient removal of complex gating systems, offering a transformative tool for post-processing of battery housings, mega-sized automotive body components, and more.



Plasma Robotic Solutions at Shanghai Die-Casting Expo

As integrated castings evolve toward larger sizes and more complex structures, gating designs grow increasingly intricate. Traditional methods like die-cutting or laser face limitations including high mold costs, substantial equipment investments, and inflexibility. JINTAIRU's plasma robotic workstation showcased three core advantages:

1. **Mold-Free Operation:** Eliminates million-dollar mold investments in multi-product casting scenarios.
2. **Adaptive Cutting:** Removes a floor pan casting's biscuit in ~25 seconds with industrial-grade precision.
3. **Zero-Failure Reliability:** Powered by Hypertherm's plasma systems, backed by 50 years of expertise and 750 global patents.

Industry Impact: Efficiency Ignites Collaboration

The workstation drew strong interest from over 30 die-casting companies during the expo. A leading NEV component manufacturer noted:

“This solution resolves the conflict between precision and cycle time in large casting gate cutting. Its mold-free feature is ideal for flexible, multi-variant production lines.”

JINTAIRU's CTO concluded the event by highlighting the broader vision: “Plasma cutting is redefining die-casting post-processing. We will deepen collaboration with Hypertherm to expand plasma robotic workstations across foundry applications, driving cost efficiency for Smart Manufacturing in China.”

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Next-generation plasma robotic workstation



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